

SEQUENCE LISTING

<110> CHOO, Qui-Lim
HOUGHTON, Michael
SCOTT, Elizabeth
WEINER, Amy

<120> METHODS AND REAGENTS FOR TREATING, PREVENTING AND DIAGNOSING
BUNYAVIRUS INFECTION

<130> 21454

<140> US 10/580,050

<141> 2006-05-19

<150> PCT/US04/039333

<151> 2004-11-19

<160> 191

<170> PatentIn version 3.3

<210> 1

<211> 4527

<212> DNA

<213> La Crosse virus

<400> 1

agtagtgtag	taccaagtag	agataacggt	tgaatattaa	agttttgaat	caaagccaaa	60
gatgatttgt	atattggtgc	taattacagt	tgcagctgca	agcccagtg	atcaaagggtg	120
tttccaagat	ggggctatag	tgaagcaaaa	cccatccaaa	gaagcagtta	cagagggtgtg	180
cctgaaagat	gatgttagca	tgatcaaaa	agaggccagg	tatgtaagaa	atgcaacagg	240
agttttttca	aataatgtcg	caataaggaa	atggctagtc	tctgattggc	atgattgcag	300
gcctaagaag	atcggtgggg	gacacatcaa	tgtaatagaa	gttggtgatg	acctgtcact	360
ccatactgaa	tcatatgttt	gcagcgcaga	ttgtaccata	ggtgtagaca	aagagactgc	420
acagggtcagg	cttcagacag	ataccacaaa	tcattttgaa	attgcaggca	ctactgtgaa	480
gtcaggatgg	ttcaagagca	cgacatatat	aactcttgat	caaacttgcg	aacaccttaa	540
agtttcctgc	ggcccaaaa	ctgtacagtt	ccatgcctgc	ttcaatcagc	atatgtcttg	600
cgtcagattt	ttacacagga	caatattgcc	tggctctata	gccaatcca	tatgtcagaa	660
tatcgaaatc	ataattttag	ttacacttac	tctattaatc	tttatattgt	taagcatttt	720
aagtaagact	tatatatgtt	atttattaat	gcctatatcc	atccccatag	catatatata	780
cggtataatt	tacaataagt	cgtgcaaaaa	atgcaaat	tgtggcttag	tgtatcatcc	840
attcacagag	tgtggcacac	attgtgtctg	tgggtgccgc	tatgatactt	cagatagaat	900
gaaactgcat	agagcttctg	gattgtgccc	tgggtataaa	agcctaagag	ctgccagagt	960
catgtgcaag	tggaaagggc	ctgcatcaat	attgtctata	attactgcgg	tactggtctt	1020
aacctttgtg	acaccaatca	actccatggt	tttaggagag	agtaaagaaa	cctttgaact	1080
tgaagatctt	ccagacgaca	tgttggaagt	ggcatcgaga	ataaattctt	attatctcac	1140
ctgtatcttg	aattatgctg	taagctgggg	tcttggtatc	attggattgt	tgatcgggct	1200
gcttttttaag	aaataccagc	acagattctt	aaatgtttac	gcaatgtact	gtgaagaatg	1260
tgacatgtat	catgacaagt	ctgggttgaa	aagacatggt	gatttcacca	acaaatgcag	1320
acagtgcaca	tgtggtcaat	atgaagatgc	tgcagggttg	atggctcaca	ggaaaacctt	1380
taactgctta	gtgcagtaca	aagcaaatg	gatgatgaac	ttcctgataa	tttacctatt	1440
cttaattttg	atcaaagatt	ctgctatagt	tgtacaagct	gctggaactg	acttcaccac	1500
ctgcctagag	actgagagta	taaattggaa	ctgcactggg	ccatttttga	acctcgggaa	1560
ttgccaaaag	caacaaaaga	aagaacctta	caccaacatt	gcaactcagt	taaagggtact	1620

aaaggcaatt	tccgtactag	atgtccctat	aataacaggg	ataccagatg	atattgcggg	1680
tgctttaaga	tatatagaag	agaaggaaga	tttccatgtc	cagctaacta	tagaatatgc	1740
gatgttaagc	aaatactgtg	actattatac	ccaattctca	gataactcag	gatacagtca	1800
gacaacatgg	agagtgtact	taaggtctca	tgagaaagtgc	gcctgtatac	tatatccaaa	1860
tcagcacttt	tgcagatgtg	taaaaaatgg	tgagaaagtgc	agcagctcca	attgggactt	1920
tgccaatgaa	atgaaagatt	attactctgg	gaaacaaaaca	aagtttgaca	aggacttaaa	1980
tctagcccta	acagctttgc	atcatgcctt	cagggggacc	tcatctgcat	atatagcaac	2040
aatgctctca	aaaaagtgca	atgatgactt	gattgcatac	acaaataaga	taaaaacaaa	2100
attcccaggt	aatgcattgt	tgaaggctat	aatagattat	atagcatata	tgaaaagttt	2160
gccaggtatg	gcaaatttca	aatatgatga	attctgggat	gaattactgt	acaaacccaa	2220
cccagcaaa	gcctcaaacc	ttgctagagg	aaaggagtca	tcttacaact	tcaaactagc	2280
aatttcatca	aagtctataa	aaacctgcaa	gaatgttaag	gatgttgcc	gcttatcgcc	2340
aaggtcaggt	gctatatatg	cttcaataat	tgcggtgtgt	gaacccaatg	ggccaagtgt	2400
gtataggaaa	ccatcaggtg	gtgtattcca	atctagcact	gatcgggtcta	tatactgctt	2460
gctggatagc	cattgtctag	aagaatttga	ggccatcggc	caggaggagc	tggatgcggt	2520
aaagaaatcc	aaatgttggg	aaattgaata	tcctgacgta	aagctcatcc	aagaaggcga	2580
tgggactaaa	agctgtagaa	tgaaagattc	tgggaaactgc	aatgttgcaa	ctaacagatg	2640
gccagtgata	caatgtgaga	atgacaaatt	ttactactca	gagcttcaaa	aagattatga	2700
caaagctcaa	gatattggct	actattgctt	aagccctgga	tgtactactg	tccggtaccc	2760
tattaatcca	aagcacatct	ctaactgtaa	ttggcaagta	agcagatcta	gcatagcgaa	2820
gatagatgtg	cacaatatgt	aggatatgtg	gcaatataag	aaagctataa	ctcagaaact	2880
tcaaaccgagc	ctatctctat	tcaagtatgc	aaaaacaaaa	aacttgccgc	acatcaaacc	2940
aatttataaa	tatataacta	tagaaggaac	agaaactgca	gaaggatatag	agagtgcata	3000
cattgaatca	gaagtacctg	cattggctgg	gacatctatc	ggattcaaaa	tcaattctaa	3060
agagggcaag	cacttgctag	atgttatagc	atatgtaaaa	agtgcctcat	actcttcagt	3120
gtatacaaaa	ttgtactcaa	ctggcccaac	atcagggata	aataactaaac	atgatgaatt	3180
gtgtactggc	ccatgcccg	caaatatcaa	tcatcaggtt	gggtggctga	catttgcaag	3240
agagaggaca	agctcatggg	gatgcgaaga	gtttgggtgc	ctggctgtaa	gtgatgggtg	3300
tgtatttggg	tcatgcccaag	atataataaa	agaagaacta	tctgtctata	ggaaggagac	3360
cgaggaagtg	actgatgtag	aactgtgttt	gacattttca	gacaaaacat	actgtacaaa	3420
cttaaaccct	gttaccctta	ttataacaga	tctattttgag	gtacagttca	aaactgtaga	3480
gacctacagc	ttgcctagaa	ttgttgctgt	gcaaaaccat	gagattaaaa	ttgggcaaat	3540
aaatgattta	ggagtttact	ctaagggttg	tgggaatggt	caaaagggtca	atggaactat	3600
ttatggcaat	ggagttccca	gatttgacta	cttatgccat	ttagctagca	ggaagggaagt	3660
cattgttaga	aaatgcttcg	acaatgatta	ccaagcatgc	aaatttcttc	aaagccctgc	3720
tagttacaga	cttgaagaag	acagtggcac	tgtgaccata	attgactaca	aaaagatttt	3780
aggaacaatc	aagatgaagg	caatttttagg	agatgtcaaa	tataaaacat	ttgctgatag	3840
tgctgatata	accgcagaag	ggtcatgcac	cggctgtatt	aactgcttcg	aaaatatcca	3900
ttgcgaatta	acgttgcaac	ccacaattga	agccagctgc	ccaattaaaa	gctcgtgcac	3960
agtatttcat	gacaggattc	ttgtgactcc	aaatgaacac	aaatatgcat	tgaaaatggg	4020
gtgcacagaa	aagccaggga	acacactcac	aattaaagtc	tgcaatacta	aagttgaagc	4080
atctatggcc	cttgtagacg	caaagcctat	catagaacta	gcaccagttg	atcacagacg	4140
atatataaga	gaaaaagatg	aaagggtgta	aacttggtatg	tgtagggtaa	gagatgaagg	4200
actgcaggtc	atcttggagc	catttaaaaa	tttatttggg	tcttatattg	ggatatttta	4260
cacatttatt	atatctatag	tagtattatt	ggttattatc	tatgtactac	tacctatatg	4320
ctttaagtta	agggataccc	ttagaaagca	tgaagatgca	tataagagag	agatgaaaat	4380
tagatagggg	atctatgcag	aacaaaattg	agtcctgtat	tatatacttc	tatttgtagt	4440
atagctgttg	ttaagtgggg	ggtggggaac	taacaacagc	gtaaatttat	tttgcaaaaa	4500
ttattttata	cttggtagca	cactact				4527

<210> 2
 <211> 299
 <212> PRT
 <213> La Crosse virus

<400> 2

Met	Ile	Cys	Ile	Leu	Val	Leu	Ile	Thr	Val	Ala	Ala	Ala	Ser	Pro	Val	1	5	10	15
Tyr	Gln	Arg	Cys	Phe	Gln	Asp	Gly	Ala	Ile	Val	Lys	Gln	Asn	Pro	Ser	20	25	30	
Lys	Glu	Ala	Val	Thr	Glu	Val	Cys	Leu	Lys	Asp	Asp	Val	Ser	Met	Ile	35	40	45	
Lys	Thr	Glu	Ala	Arg	Tyr	Val	Arg	Asn	Ala	Thr	Gly	Val	Phe	Ser	Asn	50	55	60	
Asn	Val	Ala	Ile	Arg	Lys	Trp	Leu	Val	Ser	Asp	Trp	His	Asp	Cys	Arg	65	70	75	80
Pro	Lys	Lys	Ile	Val	Gly	Gly	His	Ile	Asn	Val	Ile	Glu	Val	Gly	Asp	85	90	95	
Asp	Leu	Ser	Leu	His	Thr	Glu	Ser	Tyr	Val	Cys	Ser	Ala	Asp	Cys	Thr	100	105	110	
Ile	Gly	Val	Asp	Lys	Glu	Thr	Ala	Gln	Val	Arg	Leu	Gln	Thr	Asp	Thr	115	120	125	
Thr	Asn	His	Phe	Glu	Ile	Ala	Gly	Thr	Thr	Val	Lys	Ser	Gly	Trp	Phe	130	135	140	
Lys	Ser	Thr	Thr	Tyr	Ile	Thr	Leu	Asp	Gln	Thr	Cys	Glu	His	Leu	Lys	145	150	155	160
Val	Ser	Cys	Gly	Pro	Lys	Ser	Val	Gln	Phe	His	Ala	Cys	Phe	Asn	Gln	165	170	175	
His	Met	Ser	Cys	Val	Arg	Phe	Leu	His	Arg	Thr	Ile	Leu	Pro	Gly	Ser	180	185	190	
Ile	Ala	Asn	Ser	Ile	Cys	Gln	Asn	Ile	Glu	Ile	Ile	Ile	Leu	Val	Thr	195	200	205	
Leu	Thr	Leu	Leu	Ile	Phe	Ile	Leu	Leu	Ser	Ile	Leu	Ser	Lys	Thr	Tyr	210	215	220	
Ile	Cys	Tyr	Leu	Leu	Met	Pro	Ile	Phe	Ile	Pro	Ile	Ala	Tyr	Ile	Tyr	225	230	235	240
Gly	Ile	Ile	Tyr	Asn	Lys	Ser	Cys	Lys	Lys	Cys	Lys	Leu	Cys	Gly	Leu	245	250	255	
Val	Tyr	His	Pro	Phe	Thr	Glu	Cys	Gly	Thr	His	Cys	Val	Cys	Gly	Ala	260	265	270	
Arg	Tyr	Asp	Thr	Ser	Asp	Arg	Met	Lys	Leu	His	Arg	Ala	Ser	Gly	Leu	275	280	285	

Cys Pro Gly Tyr Lys Ser Leu Arg Ala Ala Arg
 290 295

<210> 3
 <211> 984
 <212> DNA
 <213> La Crosse virus

<400> 3
 agtagtgtag cccacttgaa tactttgaaa ataaattggt gttgactggt ttttacctaa 60
 ggggaaatta tcaagagtgt gatgtcggat ttgggtgttt atgatgtcgc atcaacaggt 120
 gcaaatggat ttgatcctga tgcagggtat atggacttct gtgttaaaaa tgcagaatta 180
 ctcaaccttg ctgcagttag gatcttcttc ctcaatgccg caaaggccaa ggctgctctc 240
 tcgcgtaagc cagagaggaa ggctaaccct aaatttggag agtggcaggt ggaggttatc 300
 aataatcatt ttcctggaaa caggaacaac ccaattggta acaacgatct taccatccac 360
 agattatctg ggtatttagc cagatgggtc cttgatcagt ataacgagaa tgatgatgag 420
 tctcagcacg agttgatcag aacaactatt atcaacccaa ttgctgagtc taatggtgta 480
 ggatgggaca gtgggccaga gatctatcta tcattctttc caggaacaga aatgtttttg 540
 gaaactttca aattctaccc gctgaccatt ggaattcaca gagtcaagca aggcattgatg 600
 gaccctcaat acctgaagaa ggccttaagg caacgctatg gcactctcac agcagataag 660
 tggatgtcac agaaggttgc agcaattgct aaagacctga aggatgtaga gcagcttaaa 720
 tggggaaaag gaggcctgag cgatactgct aaaacattcc tgcagaaatt tggcatcagg 780
 cttccataaa tatggcatga ggcattcaaa ttaggttcta aattctaaat ttatatatgt 840
 caatttgatt aattgggtat ccaaaagggg tttcttaagg gaaccacaa aaatagcagc 900
 taaatgggtg ggtggtaggg gacagcaaaa aactataaat caggtcataa ataaaaataaa 960
 atgtattcag tggggcacac tact 984

<210> 4
 <211> 235
 <212> PRT
 <213> La Crosse virus

<400> 4
 Met Ser Asp Leu Val Phe Tyr Asp Val Ala Ser Thr Gly Ala Asn Gly
 1 5 10 15
 Phe Asp Pro Asp Ala Gly Tyr Met Asp Phe Cys Val Lys Asn Ala Glu
 20 25 30
 Leu Leu Asn Leu Ala Ala Val Arg Ile Phe Phe Leu Asn Ala Ala Lys
 35 40 45
 Ala Lys Ala Ala Leu Ser Arg Lys Pro Glu Arg Lys Ala Asn Pro Lys
 50 55 60
 Phe Gly Glu Trp Gln Val Glu Val Ile Asn Asn His Phe Pro Gly Asn
 65 70 75 80
 Arg Asn Asn Pro Ile Gly Asn Asn Asp Leu Thr Ile His Arg Leu Ser
 85 90 95
 Gly Tyr Leu Ala Arg Trp Val Leu Asp Gln Tyr Asn Glu Asn Asp Asp

100	105	110
Glu Ser Gln His Glu Leu Ile Arg Thr Thr Ile Ile Asn Pro Ile Ala		
115	120	125
Glu Ser Asn Gly Val Gly Trp Asp Ser Gly Pro Glu Ile Tyr Leu Ser		
130	135	140
Phe Phe Pro Gly Thr Glu Met Phe Leu Glu Thr Phe Lys Phe Tyr Pro		
145	150	155
Leu Thr Ile Gly Ile His Arg Val Lys Gln Gly Met Met Asp Pro Gln		
	165	170
Tyr Leu Lys Lys Ala Leu Arg Gln Arg Tyr Gly Thr Leu Thr Ala Asp		
	180	185
Lys Trp Met Ser Gln Lys Val Ala Ala Ile Ala Lys Ser Leu Lys Asp		
	195	200
Val Glu Gln Leu Lys Trp Gly Lys Gly Gly Leu Ser Asp Thr Ala Lys		
	210	215
Thr Phe Leu Gln Lys Phe Gly Ile Arg Leu Pro		
225	230	235

<210> 5
 <211> 6980
 <212> DNA
 <213> La Crosse virus

<400> 5

agtagtgtac	ccctatctac	aaaacttaca	gaaaattcag	tcatatcaca	atatatgcat	60
aatggactat	caagagtatc	aacaattctt	ggctaggatt	aatactgcaa	gggatgcatg	120
tgtagccaag	gatatcgatg	ttgacctatt	aatggccaga	catgattatt	ttggtagaga	180
gctgtgcaag	tccttaaata	tagaatatag	gaatgatgta	ccatttgtag	atataatttt	240
ggatataagg	cccgaagtag	acccattaac	catagatgca	ccacatatta	ccccagacaa	300
ttatctatat	ataaataatg	tggtatatat	catagattat	aaggtctctg	tatcgaatga	360
aagcagtgtt	ataacatatg	acaaatatta	tgagttaact	aggacatat	ccgatagatt	420
aagtattcca	atagaaatag	ttatcgctccg	tatagaccct	gtaagtaagg	atttgcatat	480
taactctgat	agatttaaag	aactttaccc	tacaatagtg	gtggatataa	acttcaatca	540
atttttcgac	ttaaaacaat	tactctatga	aaaattcggg	gatgatgaag	aattcctatt	600
gaaagttgca	catggtgact	tcactcttac	agcaccctgg	tgcaagactg	gggtgccctga	660
atttttgaaa	caccccatth	ataaagaatt	taaaatgagt	atgccagtag	ctgagcggag	720
gctctttgaa	gaatctgtca	agttcaatgc	ttatgaatct	gagagatgga	atactaactt	780
ggttaaaatc	agagaatata	caaagaaaga	ctattcagag	catatttcaa	aatctgcaaa	840
aaatattttc	ctgggctagtg	gattttataa	gcagccaaat	aagaatgaga	ttagtgaggg	900
gtggacatta	atggttgaga	gggttcaaga	tcagagagaa	atctcaaaat	ctctccatga	960
ccagaaacct	agcatacatt	ttatatgggg	agcccataac	ccaggaaata	gtaataatgc	1020
aaccttcaaa	ctcataattg	tttcaaagtc	cttacaaagc	ataaaaggta	tatcaactta	1080
cacagaagcg	ttcaaatctt	taggaaaaat	gatggatatt	ggagataagg	ctattgagta	1140
tgaagaattc	tgcattgtccc	taaaaagcaa	agcaagatca	tcattggaagc	aaataatgaa	1200
caaaaaatta	gagcctaaac	aaataaacia	tgcccttggt	ttatgggaac	agcagtttat	1260
ggtaaataat	gacctgatag	acaaaagtga	gaagttgaaa	ttattcaaaa	atttctgcgg	1320

tataggcaaa	cacaagcaat	tcaagaataa	aatgctagag	gatctagaag	tgtcaaagcc	1380
caaaatatta	gactttgatg	acgcaaatat	gtatctagct	agcctaacca	tgatggaaca	1440
gagtaagaag	atattgtcca	aaagcaatgg	gttgaagcca	gataatttta	tactgaatga	1500
atttggatcc	aaaatcaaag	atgctaataa	agaaacatat	gacaatatgc	acaaaatatt	1560
tgagacaaga	tattggcaat	gtatatccga	cttctctact	ctgatgaaaa	atatcttatac	1620
tgtgtcccaa	tataacaggc	acaacacatt	taggatagct	atgtgtgcta	ataacaatgt	1680
ctttgtctata	gtatttcctt	cggctgacat	aaaaactaag	aaagcaactg	tagttttatag	1740
cattatagtg	ctgcataaag	aggaagaaaa	catattcaac	ccaggatggt	tgcacggcac	1800
atttaagtgt	atgaatgggt	atatttccat	atctagagct	ataaggctag	ataaagagag	1860
gtgccagaga	attgtttcct	cacctggact	gtttttaaca	acttgcctac	tattcaaaca	1920
tgataatcca	actctagtga	tgagcgatat	tatgaatttt	tctatatata	ctagcctgtc	1980
tatcacaaag	agtgttctat	ctttaacaga	gccagcacgc	tacatgatta	tgaactcatt	2040
agctatctcc	agcaatgtta	aggactatat	agcagagaaa	ttttcccctt	acacaaagac	2100
actgttcagt	gtctatatga	ctagactaat	taaaaatgct	tgctttgatg	cttatgacca	2160
gagacagcgt	gtccaactta	gagatatata	tttatctgat	tatgacataa	ccaaaaagg	2220
tattaaagac	aatagagagc	taacaagtat	atggttccct	ggtagtgtaa	cattaaagga	2280
gtattttaaca	caaatatact	taccatttta	ttttaatgct	aaaggactac	atgagaagca	2340
ccatgtcatg	gtggatctag	caaagactat	attagaaata	gagtgcgaac	agaggggaaa	2400
cataaaggag	atatggtcta	caaattgtac	caaacagaca	gtgaacctta	aaattttgat	2460
ccattccttg	tgcaagaatt	tactagcaga	cacttcaaga	cacaaccact	tgcggaacag	2520
aatagaaaat	aggaacaatt	ttagaaggtc	tataacaact	atttcaacat	ttacaagttc	2580
aaagtcttgc	ctcaaatatg	gggactttga	aaaagagaaa	gagctgcagt	cagttaaaca	2640
gaagaaaatc	ttagagggtg	agagtcgcaa	aatgagatta	gcaaacccaa	tgttcgtgac	2700
agatgaacaa	gtatgccttg	aagtgtgggca	ctgcaattat	gagatgctga	ggaatgctat	2760
gccgaattat	acagattata	tatcaactaa	agtatttgat	aggttatatg	agttattaga	2820
taaaggaggt	ttgacagaca	agcctgttat	agagcaaata	atggatatga	tggtcgacca	2880
caaaaagttc	tatttcacat	ttttcaataa	aggccagaaa	acgtcaaagg	atagagagat	2940
attcgttgga	gaatatgaag	ctaaaatgtg	tatgtacgca	gttgagagaa	tagcaaaaga	3000
aagatgtaaa	ttaaatcctg	atgaaatgat	atctgagccg	ggtgatggca	agttgaaggt	3060
gttgagcaaa	aaatcagaac	aagaaattcg	attcttggtc	gagactacaa	ggcaaaaaga	3120
tcgtgaaatc	gatgaggcaa	ttgaagcat	agctgcagaa	ggatatgaga	gtaatctaga	3180
aaaaattgaa	aagctttcac	ttggcaaagc	aaagggccta	aagatggaaa	taaatgcaga	3240
tatgtctaaa	tggagtgtc	aggatgtttt	ttataaatat	ttctggctca	tagccttaga	3300
ccctatcctc	taccacacag	aaaaagagag	aatattatac	tttatgtgca	actacatgga	3360
taaagaattg	atactgccag	atgaattatt	attcaatttg	ctggaccaaa	aagttgcata	3420
ccagaatgat	ataatagcta	ctatgactaa	tcaattaaat	tcaaatacag	ttctgataaa	3480
gagaaattgg	ctccaaggga	atttcaacta	cacctcaagt	tacgtccata	gctgcgcaat	3540
gtctgtgtat	aaagaaatat	taaaagaggc	cataacatta	ctagacgggt	ctatattagt	3600
caactcatta	gtccattcgg	atgataacca	aacatcgata	acaatagttc	aggataagat	3660
ggaaaatgat	aaaattatag	attttgcaat	gaaagaattt	gagagagcct	gtttgacatt	3720
tggatgccaa	gcaaatatga	aaaagacata	tgtaacaaat	tgcataaaaag	agtttgtttc	3780
attattttaac	ttgtacggcg	aacccttttc	aatatatggc	agattcctat	taacatctgt	3840
gggtgattgt	gcctatatag	ggccttatga	agatttagct	agtcgaatat	catcagccca	3900
gacagccata	aagcatggtt	gtccaccag	tctagcatgg	gtgtccatag	caataagtca	3960
ttggatgacc	tctctgacat	acaacatgct	accagggcag	tcaaatagacc	caattgatta	4020
ttccctgca	gaaaatagga	aggatatccc	tatagaattg	aatggtgtat	tagatgctcc	4080
attgtcaatg	attagtacag	ttggattgga	atctgggaat	ttatacttct	tgataaagtt	4140
gttgagcaaa	tataccccgg	tcatgcagaa	aagagagtca	gtagtcaacc	aaatagctga	4200
agttaagaac	tgggaaggctg	aggatctaac	agacaatgaa	atatttagac	ttaaaatact	4260
cagatattta	gttctagatg	cagagatgga	ccctagtgat	attatgggtg	agacaagcga	4320
catgagaggg	aggtctatgt	tgacacctag	aaaattcaca	acagcaggca	gtttaaggaa	4380
attatattct	ttcagtaagt	accaggatag	actgtcttcc	cctggaggca	tggttgaatt	4440
gttcacttat	ttgcttgaga	aacctgagtt	gttagtgact	aaaggggaag	atatgaaaga	4500
ttatatggaa	tctgtgatat	tccgatataa	ttccaaaagg	ttcaaagaaa	gtttgtcaat	4560
acagaaccca	gcacaattat	ttatagaaca	gatattgttc	tcacataagc	ccataataga	4620

```

cttttctggt atcagggaca aatatataaa cctacatgat agtagagctc tagagaagga 4680
acctgacata ttaggaaaag taacatttac agaggcttat agattattaa tgagggacct 4740
gtctagccta gaactaacca atgatgacat tcaagtaatt tattcttaca taatacttaa 4800
tgaccctatg atgataacta ttgcaaacac acatatattg tcaatatacg ggagtcctca 4860
acggaggatg ggcattgtcct gttcaacgat gccagaattt agaaatttaa aattaatata 4920
tcattcccca gccttagttt tgagagcata tagtaaaaaat aatcctgaca tccaggggtgc 4980
tgatcccacg gaaatggcta gagatttagt tcatctgaaa gagtttggtg agaacacaaa 5040
tttagaagaa aaaatgaaag ttaggattgc tataaatgaa gcagagaaag gacaacggga 5100
tatagtcttt gaactaaaag agatgactag attttatcag gtttgctatg agtatgtcaa 5160
atctacagaa cacaagataa aagtcttcat tctcccgaca aaatcataca caacaacaga 5220
tttctgttca ctcatgcagg ggaatttaat aaaagataaa gagtgggtaca cagttcacta 5280
cctaaaacag atattgtctg gtggccataa agccataatg cagcataatg ccactagtga 5340
gcaaaatatt gcttttgagt gtttcaaatt aattacccat tttgcagact cattcataga 5400
ttcattatct aggtcagctt ttttgagttt gataatagat gaattcagtt ataaagatgt 5460
gaagggttagc aaactttatg acataataaa gaatgggtat aatcgaactg acttcatacc 5520
attgcttttt agaactggcg atttaagaca agctgactta gacaagtatg atgctatgaa 5580
aagtcatgag aggggttacat ggaatgattg gcaaacatct cgtcacttgg acatgggctc 5640
aattaatcta acaataaccg gttacaatag atcaataaca ataatcggag aagataacaa 5700
attgacatat gcagaattat gtctgactag gaaaactcct gagaatataa ctataagtgg 5760
cagaaaattg ctaggtgcaa ggcattggact taaatttgaa aatatgtcca aaatccaaac 5820
ataccagggc aattattata taacatatag aaagaaagat cgccaccagt ttgtatacca 5880
gatacattct catgaatcaa taacaaggag gaatgaagag catatggcta tcaggaccag 5940
aatatacaat gaaataactc cagtatgtgt agttaacgtt gcagaggtgg atggggacca 6000
acgtatatgtg ataagatctt tagactatct aaataatgat atattttctc tttcaaggat 6060
taaagtcggg cttgacgaat ttgcaacaat aaaaaagca cacttttagta aaatggtctc 6120
atttgaagga cccccaatta agacagggtt cctcgacctt actgaattga tgaaatctca 6180
agatttgctt aaccttaatt atgataatat aaggaatagc aacttgatat ctttttcaa 6240
attgatttgc tgtgaggggt cagataatat aaatgatggg ttagagtttc tgtccgatga 6300
ccctatgaac tttacagagg gtgaagcaat acattcaaca ccgatcttta atatatatta 6360
ctcaaaaaga ggagaaagac atatgacata caggaatgca attaaattac tgatagaaag 6420
agaaactaag atttttgaag aagctttcac attcagtgag aatggcttca tatcgccaga 6480
gaactcttgg tgcttagaag cagtagtata attaataaaa ttggtgaaaa ctaatgagtg 6540
gtccacagtt atagataaat gtattcatat atgtttaata aagaatggta tggatcacat 6600
gtaccattca tttgatgtcc cttaaattgtt tatggggaat cctatcacta gagacatgaa 6660
ttggatgatg tttagagaat tcatcaatag tttaccaggg acagatatac caccatggaa 6720
tgtcatgaca gagaacttca aaaagaaatg tattgctctg ataaactcta agttagaaac 6780
acagagagat ttctcagaat tcaactaaact gatgaaaaag gaaggtggga ggagtaatat 6840
agaatttgat tagtagttat gagtttacag agaacctaca attaggctat aaatttgga 6900
gggttttgga aattggctaa aattcaaaaa gaggggggatt aacagcaact gtataaattt 6960
gtagataggg gcacactact

```

```

<210> 6
<211> 2263
<212> PRT
<213> La Crosse virus

```

```

<400> 6
Met Asp Tyr Gln Glu Tyr Gln Gln Phe Leu Ala Arg Ile Asn Thr Ala
1 5 10 15
Arg Asp Ala Cys Val Ala Lys Asp Ile Asp Val Asp Leu Leu Met Ala
20 25 30
Arg His Asp Tyr Phe Gly Arg Glu Leu Cys Lys Ser Leu Asn Ile Glu

```

35					40					45					
Tyr	Arg	Asn	Asp	Val	Pro	Phe	Val	Asp	Ile	Ile	Leu	Asp	Ile	Arg	Pro
50						55					60				
Glu	Val	Asp	Pro	Leu	Thr	Ile	Asp	Ala	Pro	His	Ile	Thr	Pro	Asp	Asn
65					70					75					80
Tyr	Leu	Tyr	Ile	Asn	Asn	Val	Leu	Tyr	Ile	Ile	Asp	Tyr	Lys	Val	Ser
				85					90					95	
Val	Ser	Asn	Glu	Ser	Ser	Val	Ile	Thr	Tyr	Asp	Lys	Tyr	Tyr	Glu	Leu
			100					105					110		
Thr	Arg	Asp	Ile	Ser	Asp	Arg	Leu	Ser	Ile	Pro	Ile	Glu	Ile	Val	Ile
		115					120					125			
Val	Arg	Ile	Asp	Pro	Val	Ser	Lys	Asp	Leu	His	Ile	Asn	Ser	Asp	Arg
	130					135					140				
Phe	Lys	Glu	Leu	Tyr	Pro	Thr	Ile	Val	Val	Asp	Ile	Asn	Phe	Asn	Gln
145					150					155					160
Phe	Phe	Asp	Leu	Lys	Gln	Leu	Leu	Tyr	Glu	Lys	Phe	Gly	Asp	Asp	Glu
			165						170					175	
Glu	Phe	Leu	Leu	Lys	Val	Ala	His	Gly	Asp	Phe	Thr	Leu	Thr	Ala	Pro
		180						185					190		
Trp	Cys	Lys	Thr	Gly	Cys	Pro	Glu	Phe	Trp	Lys	His	Pro	Ile	Tyr	Lys
	195					200						205			
Glu	Phe	Lys	Met	Ser	Met	Pro	Val	Pro	Glu	Arg	Arg	Leu	Phe	Glu	Glu
210					215					220					
Ser	Val	Lys	Phe	Asn	Ala	Tyr	Glu	Ser	Glu	Arg	Trp	Asn	Thr	Asn	Leu
225				230						235					240
Val	Lys	Ile	Arg	Glu	Tyr	Thr	Lys	Lys	Asp	Tyr	Ser	Glu	His	Ile	Ser
				245					250					255	
Lys	Ser	Ala	Lys	Asn	Ile	Phe	Leu	Ala	Ser	Gly	Phe	Tyr	Lys	Gln	Pro
		260						265					270		
Asn	Lys	Asn	Glu	Ile	Ser	Glu	Gly	Trp	Thr	Leu	Met	Val	Glu	Arg	Val
	275						280					285			
Gln	Asp	Gln	Arg	Glu	Ile	Ser	Lys	Ser	Leu	His	Asp	Gln	Lys	Pro	Ser
	290					295					300				
Ile	His	Phe	Ile	Trp	Gly	Ala	His	Asn	Pro	Gly	Asn	Ser	Asn	Asn	Ala
305					310					315					320
Thr	Phe	Lys	Leu	Ile	Leu	Leu	Ser	Lys	Ser	Leu	Gln	Ser	Ile	Lys	Gly
			325						330					335	

Ile	Ser	Thr	Tyr	Thr	Glu	Ala	Phe	Lys	Ser	Leu	Gly	Lys	Met	Met	Asp	340	345	350	
Ile	Gly	Asp	Lys	Ala	Ile	Glu	Tyr	Glu	Glu	Phe	Cys	Met	Ser	Leu	Lys	355	360	365	
Ser	Lys	Ala	Arg	Ser	Ser	Trp	Lys	Gln	Ile	Met	Asn	Lys	Lys	Leu	Glu	370	375	380	
Pro	Lys	Gln	Ile	Asn	Asn	Ala	Leu	Val	Leu	Trp	Glu	Gln	Gln	Phe	Met	385	390	395	400
Val	Asn	Asn	Asp	Leu	Ile	Asp	Lys	Ser	Glu	Lys	Leu	Lys	Leu	Phe	Lys	405	410	415	
Asn	Phe	Cys	Gly	Ile	Gly	Lys	His	Lys	Gln	Phe	Lys	Asn	Lys	Met	Leu	420	425	430	
Glu	Asp	Leu	Glu	Val	Ser	Lys	Pro	Lys	Ile	Leu	Asp	Phe	Asp	Asp	Ala	435	440	445	
Asn	Met	Tyr	Leu	Ala	Ser	Leu	Thr	Met	Met	Glu	Gln	Ser	Lys	Lys	Ile	450	455	460	
Leu	Ser	Lys	Ser	Asn	Gly	Leu	Lys	Pro	Asp	Asn	Phe	Ile	Leu	Asn	Glu	465	470	475	480
Phe	Gly	Ser	Lys	Ile	Lys	Asp	Ala	Asn	Lys	Glu	Thr	Tyr	Asp	Asn	Met	485	490	495	
His	Lys	Ile	Phe	Glu	Thr	Arg	Tyr	Trp	Gln	Cys	Ile	Ser	Asp	Phe	Ser	500	505	510	
Thr	Leu	Met	Lys	Asn	Ile	Leu	Ser	Val	Ser	Gln	Tyr	Asn	Arg	His	Asn	515	520	525	
Thr	Phe	Arg	Ile	Ala	Met	Cys	Ala	Asn	Asn	Asn	Val	Phe	Ala	Ile	Val	530	535	540	
Phe	Pro	Ser	Ala	Asp	Ile	Lys	Thr	Lys	Lys	Ala	Thr	Val	Val	Tyr	Ser	545	550	555	560
Ile	Ile	Val	Leu	His	Lys	Glu	Glu	Glu	Asn	Ile	Phe	Asn	Pro	Gly	Cys	565	570	575	
Leu	His	Gly	Thr	Phe	Lys	Cys	Met	Asn	Gly	Tyr	Ile	Ser	Ile	Ser	Arg	580	585	590	
Ala	Ile	Arg	Leu	Asp	Lys	Glu	Arg	Cys	Gln	Arg	Ile	Val	Ser	Ser	Pro	595	600	605	
Gly	Leu	Phe	Leu	Thr	Thr	Cys	Leu	Leu	Phe	Lys	His	Asp	Asn	Pro	Thr	610	615	620	

Leu	Val	Met	Ser	Asp	Ile	Met	Asn	Phe	Ser	Ile	Tyr	Thr	Ser	Leu	Ser	
625					630					635					640	
Ile	Thr	Lys	Ser	Val	Leu	Ser	Leu	Thr	Glu	Pro	Ala	Arg	Tyr	Met	Ile	
				645					650					655		
Met	Asn	Ser	Leu	Ala	Ile	Ser	Ser	Asn	Val	Lys	Asp	Tyr	Ile	Ala	Glu	
			660					665					670			
Lys	Phe	Ser	Pro	Tyr	Thr	Lys	Thr	Leu	Phe	Ser	Val	Tyr	Met	Thr	Arg	
		675					680					685				
Leu	Ile	Lys	Asn	Ala	Cys	Phe	Asp	Ala	Tyr	Asp	Gln	Arg	Gln	Arg	Val	
690						695					700					
Gln	Leu	Arg	Asp	Ile	Tyr	Leu	Ser	Asp	Tyr	Asp	Ile	Thr	Gln	Lys	Gly	
705					710					715					720	
Ile	Lys	Asp	Asn	Arg	Glu	Leu	Thr	Ser	Ile	Trp	Phe	Pro	Gly	Ser	Val	
			725						730					735		
Thr	Leu	Lys	Glu	Tyr	Leu	Thr	Gln	Ile	Tyr	Leu	Pro	Phe	Tyr	Phe	Asn	
			740					745					750			
Ala	Lys	Gly	Leu	His	Glu	Lys	His	His	Val	Met	Val	Asp	Leu	Ala	Lys	
		755					760					765				
Thr	Ile	Leu	Glu	Ile	Glu	Cys	Glu	Gln	Arg	Glu	Asn	Ile	Lys	Glu	Ile	
	770					775					780					
Trp	Ser	Thr	Asn	Cys	Thr	Lys	Gln	Thr	Val	Asn	Leu	Lys	Ile	Leu	Ile	
785					790					795					800	
His	Ser	Leu	Cys	Lys	Asn	Leu	Leu	Ala	Asp	Thr	Ser	Arg	His	Asn	His	
				805					810					815		
Leu	Arg	Asn	Arg	Ile	Glu	Asn	Arg	Asn	Asn	Phe	Arg	Arg	Ser	Ile	Thr	
			820					825					830			
Thr	Ile	Ser	Thr	Phe	Thr	Ser	Ser	Lys	Ser	Cys	Leu	Lys	Ile	Gly	Asp	
		835					840					845				
Phe	Arg	Lys	Glu	Lys	Glu	Leu	Gln	Ser	Val	Lys	Gln	Lys	Lys	Ile	Leu	
	850					855					860					
Glu	Val	Gln	Ser	Arg	Lys	Met	Arg	Leu	Ala	Asn	Pro	Met	Phe	Val	Thr	
865					870					875					880	
Asp	Glu	Gln	Val	Cys	Leu	Glu	Val	Gly	His	Cys	Asn	Tyr	Glu	Met	Leu	
				885					890					895		
Arg	Asn	Ala	Met	Pro	Asn	Tyr	Thr	Asp	Tyr	Ile	Ser	Thr	Lys	Val	Phe	
			900					905					910			
Asp	Arg	Leu	Tyr	Glu	Leu	Leu	Asp	Lys	Gly	Val	Leu	Thr	Asp	Lys	Pro	

915	920	925
Val Ile Glu Gln Ile Met Asp Met Met Val Asp His Lys Lys Phe Tyr 930 935 940		
Phe Thr Phe Phe Asn Lys Gly Gln Lys Thr Ser Lys Asp Arg Glu Ile 945 950 955 960		
Phe Val Gly Glu Tyr Glu Ala Lys Met Cys Met Tyr Ala Val Glu Arg 965 970 975		
Ile Ala Lys Glu Arg Cys Lys Leu Asn Pro Asp Glu Met Ile Ser Glu 980 985 990		
Pro Gly Asp Gly Lys Leu Lys Val Leu Glu Gln Lys Ser Glu Gln Glu 995 1000 1005		
Ile Arg Phe Leu Val Glu Thr Thr Arg Gln Lys Asn Arg Glu Ile 1010 1015 1020		
Asp Glu Ala Ile Glu Ala Leu Ala Ala Glu Gly Tyr Glu Ser Asn 1025 1030 1035		
Leu Glu Lys Ile Glu Lys Leu Ser Leu Gly Lys Ala Lys Gly Leu 1040 1045 1050		
Lys Met Glu Ile Asn Ala Asp Met Ser Lys Trp Ser Ala Gln Asp 1055 1060 1065		
Val Phe Tyr Lys Tyr Phe Trp Leu Ile Ala Leu Asp Pro Ile Leu 1070 1075 1080		
Tyr Pro Gln Glu Lys Glu Arg Ile Leu Tyr Phe Met Cys Asn Tyr 1085 1090 1095		
Met Asp Lys Glu Leu Ile Leu Pro Asp Glu Leu Leu Phe Asn Leu 1100 1105 1110		
Leu Asp Gln Lys Val Ala Tyr Gln Asn Asp Ile Ile Ala Thr Met 1115 1120 1125		
Thr Asn Gln Leu Asn Ser Asn Thr Val Leu Ile Lys Arg Asn Trp 1130 1135 1140		
Leu Gln Gly Asn Phe Asn Tyr Thr Ser Ser Tyr Val His Ser Cys 1145 1150 1155		
Ala Met Ser Val Tyr Lys Glu Ile Leu Lys Glu Ala Ile Thr Leu 1160 1165 1170		
Leu Asp Gly Ser Ile Leu Val Asn Ser Leu Val His Ser Asp Asp 1175 1180 1185		
Asn Gln Thr Ser Ile Thr Ile Val Gln Asp Lys Met Glu Asn Asp 1190 1195 1200		

Lys	Ile	Ile	Asp	Phe	Ala	Met	Lys	Glu	Phe	Glu	Arg	Ala	Cys	Leu
1205						1210					1215			
Thr	Phe	Gly	Cys	Gln	Ala	Asn	Met	Lys	Lys	Thr	Tyr	Val	Thr	Asn
1220						1225					1230			
Cys	Ile	Lys	Glu	Phe	Val	Ser	Leu	Phe	Asn	Leu	Tyr	Gly	Glu	Pro
1235						1240					1245			
Phe	Ser	Ile	Tyr	Gly	Arg	Phe	Leu	Leu	Thr	Ser	Val	Gly	Asp	Cys
1250						1255					1260			
Ala	Tyr	Ile	Gly	Pro	Tyr	Glu	Asp	Leu	Ala	Ser	Arg	Ile	Ser	Ser
1265						1270					1275			
Ala	Gln	Thr	Ala	Ile	Lys	His	Gly	Cys	Pro	Pro	Ser	Leu	Ala	Trp
1280						1285					1290			
Val	Ser	Ile	Ala	Ile	Ser	His	Trp	Met	Thr	Ser	Leu	Thr	Tyr	Asn
1295						1300					1305			
Met	Leu	Pro	Gly	Gln	Ser	Asn	Asp	Pro	Ile	Asp	Tyr	Phe	Pro	Ala
1310						1315					1320			
Glu	Asn	Arg	Lys	Asp	Ile	Pro	Ile	Glu	Leu	Asn	Gly	Val	Leu	Asp
1325						1330					1335			
Ala	Pro	Leu	Ser	Met	Ile	Ser	Thr	Val	Gly	Leu	Glu	Ser	Gly	Asn
1340						1345					1350			
Leu	Tyr	Phe	Leu	Ile	Lys	Leu	Leu	Ser	Lys	Tyr	Thr	Pro	Val	Met
1355						1360					1365			
Gln	Lys	Arg	Glu	Ser	Val	Val	Asn	Gln	Ile	Ala	Glu	Val	Lys	Asn
1370						1375					1380			
Trp	Lys	Val	Glu	Asp	Leu	Thr	Asp	Asn	Glu	Ile	Phe	Arg	Leu	Lys
1385						1390					1395			
Ile	Leu	Arg	Tyr	Leu	Val	Leu	Asp	Ala	Glu	Met	Asp	Pro	Ser	Asp
1400						1405					1410			
Ile	Met	Gly	Glu	Thr	Ser	Asp	Met	Arg	Gly	Arg	Ser	Ile	Leu	Thr
1415						1420					1425			
Pro	Arg	Lys	Phe	Thr	Thr	Ala	Gly	Ser	Leu	Arg	Lys	Leu	Tyr	Ser
1430						1435					1440			
Phe	Ser	Lys	Tyr	Gln	Asp	Arg	Leu	Ser	Ser	Pro	Gly	Gly	Met	Val
1445						1450					1455			
Glu	Leu	Phe	Thr	Tyr	Leu	Leu	Glu	Lys	Pro	Glu	Leu	Leu	Val	Thr
1460						1465					1470			

Lys Gly	Glu Asp Met Lys Asp	Tyr Met Glu Ser Val	Ile Phe Arg
1475	1480	1485	
Tyr Asn	Ser Lys Arg Phe Lys	Glu Ser Leu Ser Ile	Gln Asn Pro
1490	1495	1500	
Ala Gln	Leu Phe Ile Glu Gln	Ile Leu Phe Ser His	Lys Pro Ile
1505	1510	1515	
Ile Asp	Phe Ser Gly Ile Arg	Asp Lys Tyr Ile Asn	Leu His Asp
1520	1525	1530	
Ser Arg	Ala Leu Glu Lys Glu	Pro Asp Ile Leu Gly	Lys Val Thr
1535	1540	1545	
Phe Thr	Glu Ala Tyr Arg Leu	Leu Met Arg Asp Leu	Ser Ser Leu
1550	1555	1560	
Glu Leu	Thr Asn Asp Asp Ile	Gln Val Ile Tyr Ser	Tyr Ile Ile
1565	1570	1575	
Leu Asn	Asp Pro Met Met Ile	Thr Ile Ala Asn Thr	His Ile Leu
1580	1585	1590	
Ser Ile	Tyr Gly Ser Pro Gln	Arg Arg Met Gly Met	Ser Cys Ser
1595	1600	1605	
Thr Met	Pro Glu Phe Arg Asn	Leu Lys Leu Ile His	His Ser Pro
1610	1615	1620	
Ala Leu	Val Leu Arg Ala Tyr	Ser Lys Asn Asn Pro	Asp Ile Gln
1625	1630	1635	
Gly Ala	Asp Pro Thr Glu Met	Ala Arg Asp Leu Val	His Leu Lys
1640	1645	1650	
Glu Phe	Val Glu Asn Thr Asn	Leu Glu Glu Lys Met	Lys Val Arg
1655	1660	1665	
Ile Ala	Ile Asn Glu Ala Glu	Lys Gly Gln Arg Asp	Ile Val Phe
1670	1675	1680	
Glu Leu	Lys Glu Met Thr Arg	Phe Tyr Gln Val Cys	Tyr Glu Tyr
1685	1690	1695	
Val Lys	Ser Thr Glu His Lys	Ile Lys Val Phe Ile	Leu Pro Thr
1700	1705	1710	
Lys Ser	Tyr Thr Thr Thr Asp	Phe Cys Ser Leu Met	Gln Gly Asn
1715	1720	1725	
Leu Ile	Lys Asp Lys Glu Trp	Tyr Thr Val His Tyr	Leu Lys Gln
1730	1735	1740	
Ile Leu	Ser Gly Gly His Lys	Ala Ile Met Gln His	Asn Ala Thr

1745		1750		1755
Ser Glu Gln Asn Ile Ala Phe	Glu Cys Phe Lys Leu Ile Thr His			
1760	1765		1770	
Phe Ala Asp Ser Phe Ile Asp	Ser Leu Ser Arg Ser Ala Phe Leu			
1775	1780		1785	
Gln Leu Ile Ile Asp Glu Phe	Ser Tyr Lys Asp Val Lys Val Ser			
1790	1795		1800	
Lys Leu Tyr Asp Ile Ile Lys	Asn Gly Tyr Asn Arg Thr Asp Phe			
1805	1810		1815	
Ile Pro Leu Leu Phe Arg Thr	Gly Asp Leu Arg Gln Ala Asp Leu			
1820	1825		1830	
Asp Lys Tyr Asp Ala Met Lys	Ser His Glu Arg Val Thr Trp Asn			
1835	1840		1845	
Asp Trp Gln Thr Ser Arg His	Leu Asp Met Gly Ser Ile Asn Leu			
1850	1855		1860	
Thr Ile Thr Gly Tyr Asn Arg	Ser Ile Thr Ile Ile Gly Glu Asp			
1865	1870		1875	
Asn Lys Leu Thr Tyr Ala Glu	Leu Cys Leu Thr Arg Lys Thr Pro			
1880	1885		1890	
Glu Asn Ile Thr Ile Ser Gly	Arg Lys Leu Leu Gly Ala Arg His			
1895	1900		1905	
Gly Leu Lys Phe Glu Asn Met	Ser Lys Ile Gln Thr Tyr Pro Gly			
1910	1915		1920	
Asn Tyr Tyr Ile Thr Tyr Arg	Lys Lys Asp Arg His Gln Phe Val			
1925	1930		1935	
Tyr Gln Ile His Ser His Glu	Ser Ile Thr Arg Arg Asn Glu Glu			
1940	1945		1950	
His Met Ala Ile Arg Thr Arg	Ile Tyr Asn Glu Ile Thr Pro Val			
1955	1960		1965	
Cys Val Val Asn Val Ala Glu	Val Asp Gly Asp Gln Arg Ile Leu			
1970	1975		1980	
Ile Arg Ser Leu Asp Tyr Leu	Asn Asn Asp Ile Phe Ser Leu Ser			
1985	1990		1995	
Arg Ile Lys Val Gly Leu Asp	Glu Phe Ala Thr Ile Lys Lys Ala			
2000	2005		2010	
His Phe Ser Lys Met Val Ser	Phe Glu Gly Pro Pro Ile Lys Thr			
2015	2020		2025	

Gly	Leu	Leu	Asp	Leu	Thr	Glu	Leu	Met	Lys	Ser	Gln	Asp	Leu	Leu
2030						2035					2040			
Asn	Leu	Asn	Tyr	Asp	Asn	Ile	Arg	Asn	Ser	Asn	Leu	Ile	Ser	Phe
2045						2050					2055			
Ser	Lys	Leu	Ile	Cys	Cys	Glu	Gly	Ser	Asp	Asn	Ile	Asn	Asp	Gly
2060						2065					2070			
Leu	Glu	Phe	Leu	Ser	Asp	Asp	Pro	Met	Asn	Phe	Thr	Glu	Gly	Glu
2075						2080					2085			
Ala	Ile	His	Ser	Thr	Pro	Ile	Phe	Asn	Ile	Tyr	Tyr	Ser	Lys	Arg
2090						2095					2100			
Gly	Glu	Arg	His	Met	Thr	Tyr	Arg	Asn	Ala	Ile	Lys	Leu	Leu	Ile
2105						2110					2115			
Glu	Arg	Glu	Thr	Lys	Ile	Phe	Glu	Glu	Ala	Phe	Thr	Phe	Ser	Glu
2120						2125					2130			
Asn	Gly	Phe	Ile	Ser	Pro	Glu	Asn	Leu	Gly	Cys	Leu	Glu	Ala	Val
2135						2140					2145			
Val	Ser	Leu	Ile	Lys	Leu	Leu	Lys	Thr	Asn	Glu	Trp	Ser	Thr	Val
2150						2155					2160			
Ile	Asp	Lys	Cys	Ile	His	Ile	Cys	Leu	Ile	Lys	Asn	Gly	Met	Asp
2165						2170					2175			
His	Met	Tyr	His	Ser	Phe	Asp	Val	Pro	Lys	Cys	Phe	Met	Gly	Asn
2180						2185					2190			
Pro	Ile	Thr	Arg	Asp	Met	Asn	Trp	Met	Met	Phe	Arg	Glu	Phe	Ile
2195						2200					2205			
Asn	Ser	Leu	Pro	Gly	Thr	Asp	Ile	Pro	Pro	Trp	Asn	Val	Met	Thr
2210						2215					2220			
Glu	Asn	Phe	Lys	Lys	Lys	Cys	Ile	Ala	Leu	Ile	Asn	Ser	Lys	Leu
2225						2230					2235			
Glu	Thr	Gln	Arg	Asp	Phe	Ser	Glu	Phe	Thr	Lys	Leu	Met	Lys	Lys
2240						2245					2250			
Glu	Gly	Gly	Arg	Ser	Asn	Ile	Glu	Phe	Asp					
2255						2260								

<210> 7
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense primer derived from M segment of LACV genome

<400> 7
 cgatcaacaa tccaatgata acaag 25

<210> 8
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sense primer derived from M segment of LACV genome

<400> 8
 tggaaatggc atcgagaata aa 22

<210> 9
 <211> 39
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of LACV genome

<400> 9
 attatctcac ctgtatcttg aattatgctg taagctggg 39

<210> 10
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Sense primer derived from S segment of LACV genome

<400> 10
 gtctcagcac gagttgatca gaa 23

<210> 11
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Antisense primer derived from S segment of LACV genome

<400> 11
 aatggtcagc gggtagaatt tg 22

<210>	12	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from S segment of LACV genome	
<400>	12	
	tggtgtagga tgggacagtg ggcca	25
<210>	13	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Sense primer derived from L segment of LACV genome	
<400>	13	
	aaagtcgggc ttgacgaatt t	21
<210>	14	
<211>	23	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Antisense primer derived from L segment of LACV genome	
<400>	14	
	cggacagaaa ctctaacccta tca	23
<210>	15	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Probe derived from L segment of LACV genome	
<400>	15	
	cccccaatta agacagggt cctcg	25
<210>	16	
<211>	25	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Synthetic oligonucleotide specific for LACV sequence	

<400> 16
catgagcat tcaaattagg ttcta

25

<210> 17
<211> 174
<212> PRT
<213> La Crosse virus

<400> 17
Val Met Cys Lys Ser Lys Gly Pro Ala Ser Ile Leu Ser Ile Ile Thr
1 5 10 15
Ala Val Leu Val Leu Thr Phe Val Thr Pro Ile Asn Ser Met Val Leu
20 25 30
Gly Glu Ser Lys Glu Thr Phe Glu Leu Glu Asp Leu Pro Asp Asp Met
35 40 45
Leu Glu Met Ala Ser Arg Ile Asn Ser Tyr Tyr Leu Thr Cys Ile Leu
50 55 60
Asn Tyr Ala Val Ser Trp Gly Leu Val Ile Ile Gly Leu Leu Ile Gly
65 70 75 80
Leu Leu Phe Lys Lys Tyr Gln His Arg Phe Leu Asn Val Tyr Ala Met
85 90 95
Tyr Cys Glu Glu Cys Asp Met Tyr His Asp Lys Ser Gly Leu Lys Arg
100 105 110
His Gly Asp Phe Thr Asn Lys Cys Arg Gln Cys Thr Cys Gly Gln Tyr
115 120 125
Glu Asp Ala Ala Gly Leu Met Ala His Arg Lys Thr Tyr Asn Cys Leu
130 135 140
Val Gln Tyr Lys Ala Lys Trp Met Met Asn Phe Leu Ile Ile Tyr Ile
145 150 155 160
Phe Leu Ile Leu Ile Lys Asp Ser Ala Ile Val Val Gln Ala
165 170

<210> 18
<211> 968
<212> PRT
<213> La Crosse virus

<400> 18
Ala Gly Thr Asp Phe Thr Thr Cys Leu Glu Thr Glu Ser Ile Asn Trp
1 5 10 15
Asn Cys Thr Gly Pro Phe Leu Asn Leu Gly Asn Cys Gln Lys Gln Gln

20					25					30					
Lys	Lys	Glu	Pro	Tyr	Thr	Asn	Ile	Ala	Thr	Gln	Leu	Lys	Gly	Leu	Lys
		35					40					45			
Ala	Ile	Ser	Val	Leu	Asp	Val	Pro	Ile	Ile	Thr	Gly	Ile	Pro	Asp	Asp
	50					55					60				
Ile	Ala	Gly	Ala	Leu	Arg	Tyr	Ile	Glu	Glu	Lys	Glu	Asp	Phe	His	Val
65						70					75				80
Gln	Leu	Thr	Ile	Glu	Tyr	Ala	Met	Leu	Ser	Lys	Tyr	Cys	Asp	Tyr	Tyr
				85					90					95	
Thr	Gln	Phe	Ser	Asp	Asn	Ser	Gly	Tyr	Ser	Gln	Thr	Thr	Trp	Arg	Val
			100					105					110		
Tyr	Leu	Arg	Ser	His	Asp	Phe	Glu	Ala	Cys	Ile	Leu	Tyr	Pro	Asn	Gln
		115					120					125			
His	Phe	Cys	Arg	Cys	Val	Lys	Asn	Gly	Glu	Lys	Cys	Ser	Ser	Ser	Asn
	130					135					140				
Trp	Asp	Phe	Ala	Asn	Glu	Met	Lys	Asp	Tyr	Tyr	Ser	Gly	Lys	Gln	Thr
145						150					155				160
Lys	Phe	Asp	Lys	Asp	Leu	Asn	Leu	Ala	Leu	Thr	Ala	Leu	His	His	Ala
				165					170					175	
Phe	Arg	Gly	Thr	Ser	Ser	Ala	Tyr	Ile	Ala	Thr	Met	Leu	Ser	Lys	Lys
			180					185					190		
Ser	Asn	Asp	Asp	Leu	Ile	Ala	Tyr	Thr	Asn	Lys	Ile	Lys	Thr	Lys	Phe
		195					200					205			
Pro	Gly	Asn	Ala	Leu	Leu	Lys	Ala	Ile	Ile	Asp	Tyr	Ile	Ala	Tyr	Met
	210					215					220				
Lys	Ser	Leu	Pro	Gly	Met	Ala	Asn	Phe	Lys	Tyr	Asp	Glu	Phe	Trp	Asp
225						230					235				240
Glu	Leu	Leu	Tyr	Lys	Pro	Asn	Pro	Ala	Lys	Ala	Ser	Asn	Leu	Ala	Arg
				245					250					255	
Gly	Lys	Glu	Ser	Ser	Tyr	Asn	Phe	Lys	Leu	Ala	Ile	Ser	Ser	Lys	Ser
			260					265					270		
Ile	Lys	Thr	Cys	Lys	Asn	Val	Lys	Asp	Val	Ala	Cys	Leu	Ser	Pro	Arg
		275					280					285			
Ser	Gly	Ala	Ile	Tyr	Ala	Ser	Ile	Ile	Ala	Cys	Gly	Glu	Pro	Asn	Gly
	290					295					300				
Pro	Ser	Val	Tyr	Arg	Lys	Pro	Ser	Gly	Gly	Val	Phe	Gln	Ser	Ser	Thr
305						310					315				320

Asp	Arg	Ser	Ile	Tyr	Cys	Leu	Leu	Asp	Ser	His	Cys	Leu	Glu	Glu	Phe	325	330	335
Glu	Ala	Ile	Gly	Gln	Glu	Glu	Leu	Asp	Ala	Val	Lys	Lys	Ser	Lys	Cys	340	345	350
Trp	Glu	Ile	Glu	Tyr	Pro	Asp	Val	Lys	Leu	Ile	Gln	Glu	Gly	Asp	Gly	355	360	365
Thr	Lys	Ser	Cys	Arg	Met	Lys	Asp	Ser	Gly	Asn	Cys	Asn	Val	Ala	Thr	370	375	380
Asn	Arg	Trp	Pro	Val	Ile	Gln	Cys	Glu	Asn	Asp	Lys	Phe	Tyr	Tyr	Ser	385	390	400
Glu	Leu	Gln	Lys	Asp	Tyr	Asp	Lys	Ala	Gln	Asp	Ile	Gly	His	Tyr	Cys	405	410	415
Leu	Ser	Pro	Gly	Cys	Thr	Thr	Val	Arg	Tyr	Pro	Ile	Asn	Pro	Lys	His	420	425	430
Ile	Ser	Asn	Cys	Asn	Trp	Gln	Val	Ser	Arg	Ser	Ser	Ile	Ala	Lys	Ile	435	440	445
Asp	Val	His	Asn	Ile	Glu	Asp	Ile	Glu	Gln	Tyr	Lys	Lys	Ala	Ile	Thr	450	455	460
Gln	Lys	Leu	Gln	Thr	Ser	Leu	Ser	Leu	Phe	Lys	Tyr	Ala	Lys	Thr	Lys	465	470	475
Asn	Leu	Pro	His	Ile	Lys	Pro	Ile	Tyr	Lys	Tyr	Ile	Thr	Ile	Glu	Gly	485	490	495
Thr	Glu	Thr	Ala	Glu	Gly	Ile	Glu	Ser	Ala	Tyr	Ile	Glu	Ser	Glu	Val	500	505	510
Pro	Ala	Leu	Ala	Gly	Thr	Ser	Ile	Gly	Phe	Lys	Ile	Asn	Ser	Lys	Glu	515	520	525
Gly	Lys	His	Leu	Leu	Asp	Val	Ile	Ala	Tyr	Val	Lys	Ser	Ala	Ser	Tyr	530	535	540
Ser	Ser	Val	Tyr	Thr	Lys	Leu	Tyr	Ser	Thr	Gly	Pro	Thr	Ser	Gly	Ile	545	550	555
Asn	Thr	Lys	His	Asp	Glu	Leu	Cys	Thr	Gly	Pro	Cys	Pro	Ala	Asn	Ile	565	570	575
Asn	His	Gln	Val	Gly	Trp	Leu	Thr	Phe	Ala	Arg	Glu	Arg	Thr	Ser	Ser	580	585	590
Trp	Gly	Cys	Glu	Glu	Phe	Gly	Cys	Leu	Ala	Val	Ser	Asp	Gly	Cys	Val	595	600	605

Phe	Gly	Ser	Cys	Gln	Asp	Ile	Ile	Lys	Glu	Glu	Leu	Ser	Val	Tyr	Arg		
610						615					620						
Lys	Glu	Thr	Glu	Glu	Val	Thr	Asp	Val	Glu	Leu	Cys	Leu	Thr	Phe	Ser		
625					630					635						640	
Asp	Lys	Thr	Tyr	Cys	Thr	Asn	Leu	Asn	Pro	Val	Thr	Pro	Ile	Ile	Thr		
				645					650					655			
Asp	Leu	Phe	Glu	Val	Gln	Phe	Lys	Thr	Val	Glu	Thr	Tyr	Ser	Leu	Pro		
			660					665					670				
Arg	Ile	Val	Ala	Val	Gln	Asn	His	Glu	Ile	Lys	Ile	Gly	Gln	Ile	Asn		
		675					680					685					
Asp	Leu	Gly	Val	Tyr	Ser	Lys	Gly	Cys	Gly	Asn	Val	Gln	Lys	Val	Asn		
	690					695					700						
Gly	Thr	Ile	Tyr	Gly	Asn	Gly	Val	Pro	Arg	Phe	Asp	Tyr	Leu	Cys	His		
705					710					715					720		
Leu	Ala	Ser	Arg	Lys	Glu	Val	Ile	Val	Arg	Lys	Cys	Phe	Asp	Asn	Asp		
				725					730					735			
Tyr	Gln	Ala	Cys	Lys	Phe	Leu	Gln	Ser	Pro	Ala	Ser	Tyr	Arg	Leu	Glu		
			740					745					750				
Glu	Asp	Ser	Gly	Thr	Val	Thr	Ile	Ile	Asp	Tyr	Lys	Lys	Ile	Leu	Gly		
		755					760					765					
Thr	Ile	Lys	Met	Lys	Ala	Ile	Leu	Gly	Asp	Val	Lys	Tyr	Lys	Thr	Phe		
	770					775					780						
Ala	Asp	Ser	Val	Asp	Ile	Thr	Ala	Glu	Gly	Ser	Cys	Thr	Gly	Cys	Ile		
785					790					795					800		
Asn	Cys	Phe	Glu	Asn	Ile	His	Cys	Glu	Leu	Thr	Leu	His	Thr	Thr	Ile		
				805					810					815			
Glu	Ala	Ser	Cys	Pro	Ile	Lys	Ser	Ser	Cys	Thr	Val	Phe	His	Asp	Arg		
			820					825					830				
Ile	Leu	Val	Thr	Pro	Asn	Glu	His	Lys	Tyr	Ala	Leu	Lys	Met	Val	Cys		
	835					840						845					
Thr	Glu	Lys	Pro	Gly	Asn	Thr	Leu	Thr	Ile	Lys	Val	Cys	Asn	Thr	Lys		
	850				855						860						
Val	Glu	Ala	Ser	Met	Ala	Leu	Val	Asp	Ala	Lys	Pro	Ile	Ile	Glu	Leu		
865					870					875					880		
Ala	Pro	Val	Asp	Gln	Thr	Ala	Tyr	Ile	Arg	Glu	Lys	Asp	Glu	Arg	Cys		
				885					890					895			
Lys	Thr	Trp	Met	Cys	Arg	Val	Arg	Asp	Glu	Gly	Leu	Gln	Val	Ile	Leu		

900	905	910
Glu Pro Phe Lys Asn Leu Phe Gly Ser Tyr Ile Gly Ile Phe Tyr Thr		
915	920	925
Phe Ile Ile Ser Ile Val Val Leu Leu Val Ile Ile Tyr Val Leu Leu		
930	935	940
Pro Ile Cys Phe Lys Leu Arg Asp Thr Leu Arg Lys His Glu Asp Ala		
945	950	955
		960
Tyr Lys Arg Glu Met Lys Ile Arg		
965		

<210> 19
 <211> 92
 <212> PRT
 <213> La Crosse virus

<400> 19
 Met Met Ser His Gln Gln Val Gln Met Asp Leu Ile Leu Met Gln Gly
 1 5 10 15
 Ile Trp Thr Ser Val Leu Lys Met Gln Asn Tyr Ser Thr Leu Leu Gln
 20 25 30
 Leu Gly Ser Ser Ser Met Pro Gln Arg Pro Arg Leu Leu Ser Arg
 35 40 45
 Val Ser Gln Arg Gly Arg Leu Thr Leu Asn Leu Glu Ser Gly Arg Trp
 50 55 60
 Arg Leu Ser Ile Ile Ile Phe Leu Glu Thr Gly Thr Thr Gln Leu Val
 65 70 75 80
 Thr Thr Ile Leu Pro Ser Thr Asp Tyr Leu Gly Ile
 85 90

<210> 20
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from M segment of the LACV genome

<400> 20
 ttgtacaagc tgctggaact gactt

<210> 21
 <211> 22
 <212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 21

tgtggtgccc gctatgatac tt

22

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 22

tgtggtgccc gctatgatac

20

<210> 23

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 23

ctgtggtgcc cgctatgata c

21

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 24

ctgtggtgcc cgctatgata

20

<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from M segment of the LACV genome

<400> 25

tctgtggtgc ccgctatgat a

21

```

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 26
tctgtggtgc ccgctatgat                                     20

<210> 27
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 27
gtgtctgtgg tgcccgctat                                     20

<210> 28
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 28
agacagtggc actgtgacca taa                                  23

<210> 29
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 29
agacagtggc actgtgacca taat                                24

<210> 30
<211> 23
<212> DNA
<213> Artificial Sequence

```



```

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 30
aagacagtgg cactgtgacc ata                                     23

<210> 31
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 31
aagacagtgg cactgtgacc ataa                                     24

<210> 32
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 32
aagacagtgg cactgtgacc ataata                                     25

<210> 33
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 33
gaagacagtg gcactgtgac cata                                     24

<210> 34
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from M segment of the LACV genome

<400> 34
agaagacagt ggcactgtga ccata                                     25

```

<210> 35
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 35
 ctggggccatt tttgaacctc gggaa 25

<210> 36
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 36
 ctggggccatt tttgaacctc ggga 24

<210> 37
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 37
 cactggggcca tttttgaacc tcgg 24

<210> 38
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 38
 ctggggccatt tttgaacctc ggg 23

<210> 39
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 39
tgaacctcgg gaattgccaa aagca 25

<210> 40
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 40
tgcaactgggc catttttgaa cctcg 25

<210> 41
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 41
actgggcat ttttgaacct cggga 25

<210> 42
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 42
actgggcat ttttgaacct cggg 24

<210> 43
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 43
tgggccattt ttgaacctcg gga 23

<210> 44
<211> 25

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 44
 tgggccattt ttgaacctcg ggaat 25

 <210> 45
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 45
 cactgggccca tttttgaacc tcggg 25

 <210> 46
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 46
 tgggccattt ttgaacctcg ggaa 24

 <210> 47
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 47
 tgtgcaagtc gaaagggcct gca 23

 <210> 48
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 48

catgtgcaag tcgaaagggc ctgc 24

<210> 49
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 49
tcatgtgcaa gtcgaaaggg cctg 24

<210> 50
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 50
atgtgcaagt cgaaagggcc tgca 24

<210> 51
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 51
tcatgtgcaa gtcgaaaggg cctgc 25

<210> 52
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from M segment of the LACV genome

<400> 52
taaccgcaga agggcatgc accg 24

<210> 53
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 53
 ccgcagaagg gtcatgcacc g 21

<210> 54
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 54
 aaccgcagaa gggatcatgca ccg 23

<210> 55
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 55
 ataaccgcag aaggatcatg caccg 25

<210> 56
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 56
 accgcagaag ggtcatgcac cg 22

<210> 57
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from M segment of the LACV genome

<400> 57
 cagaagggtc atgcaccggc tgt 23

<210> 58
 <211> 21
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from M segment of the LACV genome

 <400> 58
 cgcagaaggg tcatgcaccg g 21

 <210> 59
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 59
 agtcccttta actgagttgc aatgt 25

 <210> 60
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 60
 aaggттаага ccagtaccgc agtaa 25

 <210> 61
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from M segment of the LACV genome

 <400> 61
 gtgtgcaacg ttaattcgca at 22

 <210> 62
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 62

tgtggtgtgc aacgttaatt cg

22

<210> 63

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 63

tcaattgtgg tgtgcaacgt ta

22

<210> 64

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 64

tcaattgtgg tgtgcaacgt taa

23

<210> 65

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 65

tcaattgtgg tgtgcaacgt t

21

<210> 66

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from M segment of the LACV genome

<400> 66

tcaattgtgg tgtgcaacgt taat

24

<210> 67

<211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 67
 tctcagcacg agttgatcag aac 23

 <210> 68
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 68
 ctcagcacga gttgatcaga aca 23

 <210> 69
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 69
 tcagcacgag ttgatcagaa caa 23

 <210> 70
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

 <400> 70
 tctaccgct gaccattgga at 22

 <210> 71
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from the S segment of the LACV genome

<400> 71
gagtgtgatg tcggatttgg tggt 24

<210> 72
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 72
agtctcagca cgagttgatc agaa 24

<210> 73
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 73
gtctcagcac gagttgatca gaac 24

<210> 74
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 74
tctcagcacg agttgatcag aaca 24

<210> 75
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 75
ctcagcacga gttgatcaga acaa 24

<210> 76
<211> 22
<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 76

tcagcacgag ttgatcagaa ca

22

<210> 77

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 77

tctaccgct gaccattgga a

21

<210> 78

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 78

taccgctga ccattggaat tc

22

<210> 79

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 79

caagagtgtg atgtcggatt tgg

24

<210> 80

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from the S segment of the LACV genome

<400> 80

aagagtgtga tgtcggattt ggt

23

<210> 81
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from the S segment of the LACV genome

<400> 81
 cctgatgcag ggtatatgga ctt 23

<210> 82
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from the S segment of the LACV genome

<400> 82
 tgcagggtat atggacttct gtgt 24

<210> 83
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from the S segment of the LACV genome

<400> 83
 gatgagtctc agcacgagtt gatc 24

<210> 84
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Forward primer derived from the S segment of the LACV genome

<400> 84
 gagtctcagc acgagttgat cagaa 25

<210> 85
 <211> 25
 <212> DNA
 <213> Artificial Sequence

```

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 85
agtctcagca cgagttgatc agaac
25

<210> 86
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 86
tctaccgct gaccattgga
20

<210> 87
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 87
ctaccgctg accattggaa t
21

<210> 88
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 88
cgctgaccat tggaattcac a
21

<210> 89
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 89
cctgatgcag ggtatatgga cttc
24

```

```

<210> 90
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from the S segment of the LACV genome

<400> 90
atgcagggtat tatggacttc tgtgt
25

<210> 91
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 91
caagcaaggc atgatggacc ctcaa
25

<210> 92
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 92
tcaagcaagg catgatggac cctca
25

<210> 93
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 93
tgtcgcatca acaggtgcaa atgga
25

<210> 94
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

```

<400> 94
caatgccgca aaggccaagg c 21

<210> 95
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 95
atgccgcaaa ggccaaggct gct 23

<210> 96
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 96
ccgcaaaggc caaggctgct ct 22

<210> 97
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 97
ccgcaaaggc caaggctgct ctct 24

<210> 98
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 98
atgccgcaaa ggccaaggct g 21

<210> 99
<211> 21

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 99
 tgccgcaaag gccaaggctg c 21

<210> 100
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 100
 caatgccgca aaggccaagg ctg 23

<210> 101
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 101
 aggccaaggc tgctctctcg cgta 24

<210> 102
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 102
 cgcaaaggcc aaggctgctc tct 23

<210> 103
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 103

ccaaggctgc tctctcgcgt aagc 24

<210> 104

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 104

caaaggccaa ggctgctctc tcgc 24

<210> 105

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 105

aggccaaggc tgctctctcg cg 22

<210> 106

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 106

aaaggccaag gctgctctct cgcgt 25

<210> 107

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 107

cttctcaat gccgcaaagg cca 23

<210> 108

<211> 23

<212> DNA

<213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 108
 tcttctctcaa tgccgcaaag gcc 23

<210> 109
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 109
 aaggccaagg ctgctctctc gcgt 24

<210> 110
 <211> 24
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 110
 tcttctctcaa tgccgcaaag gcca 24

<210> 111
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 111
 tcttcttctct caatgccgca aaggc 25

<210> 112
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 112
 tcaatgccgc aaaggccaag gc 22

<210> 113
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 113
 ttcttctca atgccgcaaa ggcca 25

 <210> 114
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 114
 cctcaatgcc gcaaaggcca agg 23

 <210> 115
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 115
 cttctcaat gccgcaaagg ccaag 25

 <210> 116
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 116
 ttcttctca atgccgcaaa ggcc 24

 <210> 117
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Probe derived from S segment of LACV genome

<400> 117

ctcaatgccg caaaggccaa ggc

23

<210> 118

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 118

ttcctcaatg ccgcaaaggc caa

23

<210> 119

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 119

tcctcaatgc cgcaaaggcc aag

23

<210> 120

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 120

tcctcaatgc cgcaaaggcc a

21

<210> 121

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 121

tcaatgccgc aaaggccaag gct

23

<210> 122

<211> 22
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 122

caatgccgca aaggccaagg ct

22

<210> 123

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 123

cttcttctc aatgccgcaa aggcc

25

<210> 124

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 124

ctcaatgccg caaaggccaa gg

22

<210> 125

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 125

aatgccgcaa aggccaaggc tg

22

<210> 126

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 126
atgccgcaaa ggccaaggct gc 22

<210> 127
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 127
tgccgcaaag gccaaggctg 20

<210> 128
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 128
ctcaatgccg caaaggccaa ggct 24

<210> 129
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 129
cctcaatgcc gcaaaggcca ag 22

<210> 130
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 130
cttcctcaat gccgcaaagg ccaa 24

<210> 131
<211> 25
<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 131

tcttcctcaa tgccgcaaag gccaa

25

<210> 132

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 132

tcctcaatgc cgcaaaggcc aa

22

<210> 133

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 133

ttcctcaatg ccgcaaaggc ca

22

<210> 134

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 134

ttcctcaatg ccgcaaaggc caag

24

<210> 135

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Probe derived from S segment of LACV genome

<400> 135

aggccaaggc tgctctctcg cgt

23

<210> 136
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 136
 caaggctgct ctctcgcgta agcca 25

<210> 137
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 137
 ccaaggctgc tctctcgcgt aagcc 25

<210> 138
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 138
 aggccaaggc tgctctctcg cgtaa 25

<210> 139
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Probe derived from S segment of LACV genome

<400> 139
 ccgcaaaggc caaggctgct c 21

<210> 140
 <211> 25
 <212> DNA
 <213> Artificial Sequence


```

<220>
<223> Probe derived from S segment of LACV genome

<400> 140
aaggctgctc tctcgcgtaa gccag                                     25

<210> 141
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 141
aaggctgctc tctcgcgtaa gcca                                     24

<210> 142
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 142
caaggctgct ctctcgcgta agcc                                     24

<210> 143
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 143
cgcaaaggcc aaggctgctc tc                                     22

<210> 144
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Probe derived from S segment of LACV genome

<400> 144
ccgcaaaggc caaggctgct ctc                                     23

```

<210> 145
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 145
 aaggccaagg ctgctctctc gcgta 25

 <210> 146
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 146
 aaggccaagg ctgctctctc gcg 23

 <210> 147
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 147
 cgcaaaggcc aaggctgctc tctc 24

 <210> 148
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Probe derived from S segment of LACV genome

 <400> 148
 aaaggccaag gctgctctct cgcg 24

 <210> 149
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 149
caatgggtcag cgggtagaat tt 22

<210> 150
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer derived from S segment of LACV genome

<400> 150
ccaatgggtca gcgggtagaa tt 22

<210> 151
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer derived from S segment of LACV genome

<400> 151
tccaatgggtc agcgggtaga at 22

<210> 152
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer derived from S segment of LACV genome

<400> 152
tccttcaggc tcttagcaat tgc 23

<210> 153
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Reverse primer derived from S segment of LACV genome

<400> 153
ctttgcggca ttgaggaaga ag 22

<210> 154
<211> 22

<212> DNA
<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 154

atggtcagcg ggtagaattt ga

22

<210> 155

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 155

ccaatgggtca gcgggtagaa t

21

<210> 156

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 156

tccaatgggtc agcgggtaga a

21

<210> 157

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 157

tccaatgggtc agcgggtaga

20

<210> 158

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 158

catccttcag gctcttagca attg 24

<210> 159

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 159

tgcggcattg aggaagaaga t 21

<210> 160

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 160

ttgcggcatt gaggaagaag 20

<210> 161

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 161

ctttgcggca ttgaggaaga a 21

<210> 162

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from S segment of LACV genome

<400> 162

gccactctcc aaatttaggg ttag 24

<210> 163

<211> 23

<212> DNA

<213> Artificial Sequence

<220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 163
 cacctgccac tctccaaatt tag 23

<210> 164
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 164
 tcagcgggta gaatttgaaa gtt 23

<210> 165
 <211> 22
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 165
 tggtcagcgg gtagaatttg aa 22

<210> 166
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 166
 atggtcagcg ggtagaattt gaa 23

<210> 167
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse primer derived from S segment of LACV genome

<400> 167
 aatggtcagc gggtagaatt tga 23

<210> 168
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from S segment of LACV genome

 <400> 168
 caatgggtcag cgggtagaat ttg 23

 <210> 169
 <211> 20
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from S segment of LACV genome

 <400> 169
 ccaatgggtca gcgggtagaa 20

 <210> 170
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from S segment of LACV genome

 <400> 170
 atccttcagg ctcttagcaa ttgc 24

 <210> 171
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Reverse primer derived from S segment of LACV genome

 <400> 171
 tctacatcct tcaggctctt agca 24

 <210> 172
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>

<223> Reverse primer derived from S segment of LACV genome

<400> 172

acctgccact ctccaaattt agg

23

<210> 173

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from L segment of LACV genome

<400> 173

taaagtcggg cttgacgaat tt

22

<210> 174

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from L segment of LACV genome

<400> 174

ttaaagtcgg gcttgacgaa tt

22

<210> 175

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from L segment of LACV genome

<400> 175

ttaaagtcgg gcttgacgaa ttt

23

<210> 176

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from L segment of LACV genome

<400> 176

attaaagtcg ggcttgacga att

23

<210> 177

<211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from L segment of LACV genome

 <400> 177
 atttaaagtcg ggcttgacga attt 24

 <210> 178
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from L segment of LACV genome

 <400> 178
 gattaaagtc gggcttgacg aa 22

 <210> 179
 <211> 23
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from L segment of LACV genome

 <400> 179
 gattaaagtc gggcttgacg aat 23

 <210> 180
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from L segment of LACV genome

 <400> 180
 gattaaagtc gggcttgacg aatt 24

 <210> 181
 <211> 25
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Forward primer derived from L segment of LACV genome

<400> 181
gattaaagtc gggcttgacg aattt 25

<210> 182
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from L segment of LACV genome

<400> 182
caaggattaa agtcgggctt ga 22

<210> 183
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from L segment of LACV genome

<400> 183
caaggattaa agtcgggctt gac 23

<210> 184
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from L segment of LACV genome

<400> 184
tcaaggatta aagtcgggct tga 23

<210> 185
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Forward primer derived from L segment of LACV genome

<400> 185
tcaaggatta aagtcgggct tgac 24

<210> 186
<211> 24
<212> DNA

<213> Artificial Sequence

<220>

<223> Forward primer derived from L segment of LACV genome

<400> 186

ttcaaggatt aaagtcgggc ttga

24

<210> 187

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from L segment of LACV genome

<400> 187

cggacagaaa ctctaacc ca tc at

24

<210> 188

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from L segment of LACV genome

<400> 188

cggacagaaa ctctaacc ca tc att

25

<210> 189

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from L segment of LACV genome

<400> 189

tcggacagaa actctaacc c at ca

24

<210> 190

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Reverse primer derived from L segment of LACV genome

<400> 190

tcggacagaa actctaacc c at cat

25

<210> 191
<211> 25
<212> DNA
<213> Artificial Sequence

<220>

<223> Reverse primer derived from L segment of LACV genome

<400> 191

atcggacaga aactctaacc catca

25